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**D4035-11**  
**Job Sheet 195044**



**Part No:** D4035-11

**Job Qty:** 8 pcs

**Part Name:** Bushing



**Part Weight:** 0 lbs

**Status:** New

DAS  
21  
9-89

**Priority:** Medium

**Job Created:** 5/13/19

**Job Tracking No:**

**Due Date:** 6/20/19 *June 10*

**Created By:** Marie Lajeunesse

**Type:** Stock

**Description:**

**Note:** DWG REV A IPP Rev:A new issue DD 10.03.15 verified by:JLM

**Ship Via:**

### Bill of Materials

### Job Routing

| Op No | Operation                   | Qty   | Start Date | Due Date | Standard  |         | Workcenter/Supplier   |           | Sign-off        |
|-------|-----------------------------|-------|------------|----------|-----------|---------|-----------------------|-----------|-----------------|
|       |                             |       |            |          | Setup Hrs | Run Hrs | Workcenter / Supplier | Lead Time |                 |
| 100   | Hardinge - 1                | 8 pcs | 6/20/19    | 6/20/19  | 0.00      | 0.80    | Hardinge - 1          |           | <i>19/06/17</i> |
| 120   | QC 8                        | 8 pcs | 6/20/19    | 6/20/19  | 0.00      | 0.00    | QC 8 - 12             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 14             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 17             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 20             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 25             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 3              |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 32             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 33             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 35             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 39             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 4              |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 44             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 45             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 49             |           | <i>20/06/17</i> |
|       |                             |       |            |          |           |         | QC 8 - 58             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 8              |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 9              |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 68             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 67             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 1 (A)          |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 47             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 40             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 52             |           |                 |
|       |                             |       |            |          |           |         | QC 8 - 23             |           |                 |
| 130   | Packaging 3-1 - Stock - B4B | 8 pcs | 6/20/19    | 6/20/19  | 0.00      | 0.00    | Packaging 3 - 1 - B4B |           |                 |
|       |                             |       |            |          |           |         | Packaging 3 - 2 - B4B |           |                 |
|       |                             |       |            |          |           |         | Packaging 3 - 3 - B4B |           |                 |
|       |                             |       |            |          |           |         | Packaging 3 - 4 - B4B |           |                 |
|       |                             |       |            |          |           |         | Packaging 3 - 5 - B4B |           |                 |
|       |                             |       |            |          |           |         | Packaging 3 - 6 - B4B |           |                 |

DAS  
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9-89

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|                                                                                                                                                                                                                                                           |                         |                                |                  |                        |                         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------|--------------------------------|------------------|------------------------|-------------------------|
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 7 - B4B  |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 8 - B4B  |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 9 - B4B  |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 10 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 11 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 12 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 13 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 14 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 15 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 16 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 17 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 18 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 19 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 20 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 21 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 22 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 23 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 24 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 25 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 26 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 27 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 28 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 29 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 30 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 31 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 32 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 33 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 34 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 35 - B4B |                         |
|                                                                                                                                                                                                                                                           |                         |                                |                  | Packaging 3 - 36 - B4B |                         |
| 140 QC 21 - SA                                                                                                                                                                                                                                            | 8 pcs                   | 6/20/19                        | 0.00 0.00        | QC 21 - SA - 21        | DAS                     |
|                                                                                                                                                                                                                                                           |                         |                                |                  | QC 21 - SA - 70        | 21 JUN 21 2019          |
|                                                                                                                                                                                                                                                           |                         |                                |                  | QC 21 - SA - 53        | 9:59                    |
| Part Op 100 - (Hardinge) TURN AS PER FOLIO FA916 AND DWG D4021<br>Descriptions: 120 - (QC8- Inspect parts - second check)<br>130 - (Identify as per dwg & Stock Location: _____) LOCATION: WA004-7<br>140 - (QC21- Final Inspection - Work Order Release) |                         |                                |                  |                        |                         |
| <b>Job BOM</b>                                                                                                                                                                                                                                            |                         |                                |                  |                        |                         |
| <b>Part / Item</b>                                                                                                                                                                                                                                        | <b>Component Name</b>   | <b>Quantity</b>                | <b>Operation</b> | <b>Container</b>       |                         |
| M6061T6R0.375                                                                                                                                                                                                                                             | 6061-T6 Round Bar .375" | .5000 ft (.0625 ea)            | 100-Hardinge - 1 | 5172 184               |                         |
| <b>Job Allocations</b>                                                                                                                                                                                                                                    |                         |                                |                  |                        |                         |
| <b>Operation</b>                                                                                                                                                                                                                                          | <b>Component Part</b>   | <b>Required</b>                | <b>Inventory</b> | <b>Allocated</b>       |                         |
| 100-Hardinge - 1                                                                                                                                                                                                                                          | M6061T6R0.375           | 1                              | 32               | 0                      |                         |
| <b>Part Specifications</b>                                                                                                                                                                                                                                |                         |                                |                  |                        |                         |
| <b>Spec No</b>                                                                                                                                                                                                                                            | <b>Description</b>      | <b>Target/Tolerance</b>        | <b>Limits</b>    | <b>Type</b>            | <b>Special Comments</b> |
| 1                                                                                                                                                                                                                                                         | Bushing                 | 0.380Inches ± 0.030            | 0.410<br>0.350   | Diameter               |                         |
| 2                                                                                                                                                                                                                                                         | Bushing                 | 0.191Inches + 0.005<br>- 0.001 | 0.196<br>0.190   | Diameter               |                         |
| 3                                                                                                                                                                                                                                                         | Bushing                 | 0.750Inches ± 0.030            | 0.780<br>0.720   |                        |                         |

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Entered: \_\_\_\_\_ Date: \_\_\_\_\_



## WORK ORDER NON-CONFORMANCE / ROUTE UPDATE

NCR No. \_\_\_\_\_

Route update only ☐

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |              |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|--------------|--|
| Job: _____<br><br>Part No. _____                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>DISPOSITION</b><br><br>Rework <input type="checkbox"/><br>Scrap <input type="checkbox"/><br>Use-as-is <input type="checkbox"/> | <b>DEPARTMENT/PROCESS</b><br><br><div style="display: flex; justify-content: space-between;"> <div>           Skid-tube <input type="checkbox"/><br/>           Machining <input type="checkbox"/><br/>           Large Fab <input type="checkbox"/> </div> <div>           Cross tube <input type="checkbox"/><br/>           Small Fab <input type="checkbox"/><br/>           Finishing <input type="checkbox"/> </div> <div>           Eng. (Non-AW) <input type="checkbox"/><br/>           Prod. Eng. Coord. <input type="checkbox"/><br/>           Rec/Store/Packaging <input type="checkbox"/> </div> <div>           Engineering <input type="checkbox"/><br/>           Water Jet <input type="checkbox"/><br/>           Supplier <input type="checkbox"/><br/>           Quality <input type="checkbox"/> </div> </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                        |              |  |
| Date :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Sequence #:                                                                                                                       | QTY Affected :                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                        | MRB (QSI042) |  |
| Description Work Order Deviation                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Disposition            |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Completed By           |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Lead hand / Supervisor |              |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | QC / QA Coordinator    |              |  |
| <b>Root Cause</b><br><br><div style="display: flex; flex-direction: column;"> <div>Operator <input type="checkbox"/></div> <div>Manufacturing Process <input type="checkbox"/></div> <div>Equip/Tooling <input type="checkbox"/></div> <div>Handling/Presservation <input type="checkbox"/></div> <div>Material <input type="checkbox"/></div> <div>Product Improvement <input type="checkbox"/></div> <div>Process Improvement <input type="checkbox"/></div> <div>Human Factors <input type="checkbox"/></div> </div> |                                                                                                                                   | <b>FAULT CATEGORY</b><br><br><div style="display: flex; flex-wrap: wrap;"> <div style="width: 50%;"> <input type="checkbox"/> Pressure/Forced<br/> <input type="checkbox"/> Bending<br/> <input type="checkbox"/> Crushing<br/> <input type="checkbox"/> Cracks<br/> <input type="checkbox"/> Crimp/Kink/Ripple/Wave/Twist<br/> <input type="checkbox"/> Marks/Chatter<br/> <input type="checkbox"/> Mislabeled         </div> <div style="width: 50%;"> <input type="checkbox"/> Contamination<br/> <input type="checkbox"/> Misaligned/off center<br/> <input type="checkbox"/> BOM/Route<br/> <input type="checkbox"/> Broken/Damage/Defect<br/> <input type="checkbox"/> Incomplete/Unclear Instructions<br/> <input type="checkbox"/> Drill Holes<br/> <input type="checkbox"/> Fit/Function         </div> <div style="width: 50%;"> <input type="checkbox"/> Power Loss/Surge<br/> <input type="checkbox"/> Folio/Program<br/> <input type="checkbox"/> Grain Direction<br/> <input type="checkbox"/> Weld<br/> <input type="checkbox"/> Wrong Stock Pulled<br/> <input type="checkbox"/> Out of Sequence<br/> <input type="checkbox"/> Off-set/Set-up         </div> <div style="width: 50%;"> <input type="checkbox"/> Positioned Wrong<br/> <input type="checkbox"/> Outside Tolerance<br/> <input type="checkbox"/> Drawing<br/> <input type="checkbox"/> Finish<br/> <input type="checkbox"/> Part Lost/Missing<br/> <input type="checkbox"/> Misread         </div> </div> |                        |              |  |
| Other/Details:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                        |              |  |



**Container No: S191002**



**Part: D4035-11**

**Job No: 195044**

**Serial No/Batch: S191002**

**Revision:**

**Inspector:**

**Exp Date:**

**Instructions: Various STC's**

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**Date: 06/17/19**